

# Notice of Allowability

Application No.

10/624,063

Examiner

Tuan T. Dinh

Applicant(s)

BRANDENBURG ET AL.

Art Unit

2841

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/09/06.
2. ☒ The allowed claim(s) is/are 1,3-9,11-21 (renumber claims are 1-19).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 12/20/06.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin Grzelak (Reg. 35,169) on 12/20/06.

The application has been amended as follows:

Please, **cancel claims 2 and 10 without prejudice.**

For claim 3, line 1, please, change "The assembly of claim 2" to - - **The assembly of claim 1** - -.

For claim 11, line 1, please, change "The assembly of claim 10" to - - **The assembly of claim 9** - -.

**For claim 1**, the amendment claim should be amend as follow:

(Twice currently amended) A printed circuit board (PCB) assembly, comprising:  
a printed circuit board (PCB) for connecting a plurality of electrical components, the PCB including a plurality of conductive layers each separated by a non-conductive layer; and

a first integrated conductive bus structure extending from a first edge of the PCB, wherein a first portion of the bus structure that extends from the edge of the PCB forms a plurality of electrically separate contacts of a connector and a second portion of the

bus structure that is laminated into the PCB as an internal layer of the PCB couples each of the contacts to at least one conductive trace within the PCB through plated holes;

an aperture formed in the PCB adjacent the second portion of the bus structure, the aperture providing access to the second portion of the bus structure; and a filter block positioned within the aperture formed in the PCB, the filter block located adjacent to the second portion of the bus structure, the filter block providing inductive filtering for the contacts of the connector.

**For claim 9**, the amendment claim should be amend as follow:

**(Twice currently amended)** A printed circuit board (PCB) assembly, comprising:  
a printed circuit board (PCB) for connecting a plurality of electrical components, the PCB including a plurality of conductive layers each separated by a non-conductive layer; and

a first integrated conductive bus structure extending from a first edge of the PCB, wherein a first portion of the bus structure that extends from the edge of the PCB forms a plurality of electrically separate contacts of a connector and a second portion of the bus structure that is laminated into the PCB as an internal layer of the PCB couples each of the contacts to at least one conductive trace within the PCB through plated holes, and wherein the assembly is overmolded with a plastic material and a portion of the plastic material forms a connector housing that surrounds the contacts of the connector;

an aperture formed in the PCB adjacent the second portion of the bus structure, the aperture providing access to the second portion of the bus structure; and a filter block positioned within the aperture formed in the PCB, the filter block located adjacent to the second portion of the bus structure, the filter block providing inductive filtering for the contacts of the connector.

For claim 16, line 13, please, change "incorporated" to - - **positioned** - -.

***Allowable Subject Matter***

2. Claims 1, 3-9, and 11-21 are allowed.

The following is an examiner's statement of reasons for allowance: neither the references cited nor the cited references disclose or suggest in combination of an aperture formed in the PCB adjacent the second portion of the bus structure, the aperture providing access to the second portion of the bus structure; and a filter block positioned within the aperture formed in the PCB, the filter block located adjacent to the second portion of the bus structure, the filter block providing inductive filtering for the contacts of the connector.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Reichard Dean can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Tuan Dinh', with a stylized flourish at the end.

Tuan Dinh  
December 20, 2006.